CLAIMS

What is claimed is:

1	1.	A method for managing access to a resource that is accessible to a plurality of entities,
2		the method comprising the steps of:
3		for each entity of said plurality of entities, maintaining, local to said entity,
4		data that indicates whether any other entity of said plurality of entities
5		has an exclusive lock on said resource;
6		for each entity of said plurality of entities that seeks to acquire a shared lock,
7		performing the steps of:
8		checking the data that is local to the entity;
9		if the data indicates that an exclusive lock has not been granted to any
10		one of the other entity of said plurality of entities, then the
11		entity acquiring said shared lock without receiving a lock grant
12		from a resource master of said resource; and
13		if the data indicates that an exclusive lock has been granted to any one
14		of the other entity of the plurality of entities, then the entity
15		acquiring said shared lock only after said exclusive lock is
16		released by the entity that has been holding said exclusive lock

- The method of Claim 1 wherein the entity acquires said shared lock without 1 2.
- 2 communication with the resource master of the resource.

- The method of Claim 1 wherein the step of the entity acquiring said shared lock only
 after the exclusive lock is released is performed by the step of continuing checking the
 data that is local to the entity until that data indicates that the exclusive lock has been
 released by the entity that has been holding the exclusive lock.
- The method of Claim 1 wherein the step of the entity acquiring said shared lock only
 after the exclusive lock is released is performed after a step of receiving a message
 from the resource manager notifying that the entity is allowed to acquire said shared
 lock.
- The method of Claim 1, upon the exclusive lock has been released by the entity that
 has been holding the exclusive lock, performing the step of updating each data of the
 plurality of entities to reflect that none of the plurality of entities is holding an
 exclusive lock.
- The method of Claim 5 wherein the step of updating is initiated by the resource
 manager that broadcasts messages to the plurality of entities for each entity of the
 plurality of entities to modify the data corresponding to the each entity.
- 7. The method of Claim 1 wherein an entity of said plurality of entities is a database
 2 server.
- 1 8. A method for managing access to a resource that is accessible to a plurality of entities,
 2 the method comprising the steps of:

3		for each entity of said plurality of entities, maintaining, local to said entity,
4		data that indicates whether any other entity of said plurality of entities
5		has an exclusive lock on said resource;
6		for each entity of the plurality of entities that seeks to acquire an exclusive
7		lock, performing the steps of:
8		requesting, from a resource manager, said exclusive lock for said
9		entity; wherein said resource manager manages access to said
10		resource;
11		if no conflicting lock is being held by any other entity of the plurality
12		of entities, then
13		said entity acquiring said exclusive lock, and
14		updating the data of the plurality of entities to reflect that an
15		exclusive lock is being held by one of the plurality of
16		entities.
1	9.	The method of Claim 8 wherein, upon recognizing that no conflicting lock is being
2		held by any of the entity of the plurality of entities, then the resource manager
3		allowing the entity that seeks to acquire an exclusive lock to acquire that exclusive
4		lock.
1	10.	The method of Claim 8, wherein, if an exclusive lock is being held by any entity of the
2		plurality of entities, then indicating to the entity that is holding said exclusive lock that
3		another entity of the plurality of entities is waiting for a lock.

1	11.	The method of Claim 10, wherein, upon said exclusive lock is being released by the
2		entity that is holding said exclusive lock, indicating to the lock manager that said
3		exclusive lock has been released by the entity that is holding said exclusive lock.
1	12.	The method of Claim 8, wherein, if a shared lock is being held by any entity of the
2		plurality of entities, then indicating to all entities that are holding a shared lock that are
3		entity of the plurality of entities is waiting for a lock.
1	13.	The method of Claim 12 wherein each entity of all entities that is holding a shared
2		lock, upon releasing said shared lock, indicates to said lock manager that the
3		corresponding shared lock that is held by that entity has been released.
1	14.	The method of Claim 8 wherein an entity of the plurality of entities is a database
2		server.
1	15.	A computer-readable medium carrying instructions for managing access to a resource
2		that is accessible to a plurality of entities, the instructions including instructions for
3		performing the steps of:
4		for each entity of said plurality of entities, maintaining, local to said entity,
5		data that indicates whether any other entity of said plurality of entities
6		has an exclusive lock on said resource;
7		for each entity of said plurality of entities that seeks to acquire a shared lock,
8		performing the steps of:
9		checking the data that is local to the entity;
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10	if the data indicates that an exclusive lock has not been granted to any
11	one of the other entity of said plurality of entities, then the
12	entity acquiring said shared lock without receiving a lock grant
13	from a resource master of said resource; and
14	if the data indicates that an exclusive lock has been granted to any one
15	of the other entity of the plurality of entities, then the entity
16	acquiring said shared lock only after said exclusive lock is
17	released by the entity that has been holding said exclusive lock.

- 1 16. The computer-readable medium of Claim 15 wherein the entity acquires said shared 2 lock without communication with the resource master of the resource.
- The computer-readable medium of Claim 15 wherein the step of the entity acquiring 17. 2 said shared lock only after the exclusive lock is released is performed by the step of 3 continuing checking the data that is local to the entity until that data indicates that the exclusive lock has been released by the entity that has been holding the exclusive 4 5 lock.
- 1 18. The computer-readable medium of Claim 15 wherein the step of the entity acquiring 2 said shared lock only after the exclusive lock is released is performed after a step of 3 receiving a message from the resource manager notifying that the entity is allowed to 4 acquire said shared lock.

1	19.	The computer-readable medium of Claim 15 further including instructions for
2		updating, in response to the exclusive lock being released by the entity that has been
3		holding the exclusive lock, each data of the plurality of entities to reflect that none of
4		the plurality of entities is holding an exclusive lock.
1	20.	The computer-readable medium of Claim 19 wherein the step of updating is initiated
2		by the resource manager that broadcasts messages to the plurality of entities for each
3		entity of the plurality of entities to modify the data corresponding to the each entity.
1	21.	The computer-readable medium of Claim 15 wherein an entity of said plurality of
2		entities is a database server.
1	22.	A computer-readable medium carrying instructions for managing access to a resource
2		that is accessible to a plurality of entities, the instructions including instructions for
3		performing the steps of:
4		for each entity of said plurality of entities, maintaining, local to said entity,
5		data that indicates whether any other entity of said plurality of entities
6		has an exclusive lock on said resource;
7		for each entity of the plurality of entities that seeks to acquire an exclusive
8		lock, performing the steps of:
9		requesting, from a resource manager, said exclusive lock for said
10		entity; wherein said resource manager manages access to said
11		resource;